

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/807,214	08	3/08/2001	Takaya Sato	001-03-033 4316	
35870	7590	11/02/2005		EXAMINER	
APEX JUR	•		MERCADO, JULIAN A		
13194 EDGE SEATTLE,		LANE NORTHEAS 5	ST	ART UNIT PAPER NUMBER	
55.11155, 1111 90.50				1745	

DATE MAILED: 11/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/807,214	SATO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Julian Mercado	1745	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet v	vith the correspondence address	:
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by stated the period for reply will, by stated and the period for reply will be set of the period for reply wi	DATE OF THIS COMMUN 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO ute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communi	
Status			
1) Responsive to communication(s) filed on <u>09</u>	August 2005.		
2a)⊠ This action is FINAL . 2b)□ TI	his action is non-final.		
3) Since this application is in condition for allow			its is
closed in accordance with the practice unde	r <i>Ex part</i> e Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are withd			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-13</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	iner.		
10) The drawing(s) filed on is/are: a) a		by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corr			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attach	ed Office Action or form PTO-15	52.
Priority under 35 U.S.C. § 119			
12)☐ Acknowledgment is made of a claim for forei a)☐ All b)☐ Some * c)☐ None of:		§ 119(a)-(d) or (f).	
1. Certified copies of the priority docume		A 19 41	
2. Certified copies of the priority docume			•
3. Copies of the certified copies of the p		in received in this National Stay	e
application from the International Bure * See the attached detailed Office action for a I		ot received.	
See the attached detailed Office design for a t	iot or and doramou dopied ha		
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		y Summary (PTO-413) o(s)/Mail Date	
Notice of Draitsperson's Fatent Drawing Review (F10-940) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/I Paper No(s)/Mail Date		Informal Patent Application (PTO-152)	1

Application/Control Number: 09/807,214

Art Unit: 1745

DETAILED ACTION

Remarks

This Office action is responsive to applicant's amendment filed August 9, 2005.

Claims 1-13 are pending.

Claim Rejections - 35 USC § 102 and 103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hayashi et al. (JP 8-287951).

Claims 1-5 and 11-13 are rejected under 35 U.S.C. 103(a) as obvious over Bai et al. (U.S. Pat. 5,744,258) in view of Hayashi et al.

Claims 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bai et al. in view of Hayashi et al. as applied to claims 1-5 and 11-13 above, and further in view of Dahn et al. (U.S. Pat. 4,969,254).

Application/Control Number: 09/807,214

Art Unit: 1745

The rejections are maintained for the reasons of record. Applicant's arguments have been fully considered, however they are not found persuasive.

Applicant submits that the polymer in Hayashi et al. is NOT an ion conductive material, citing the Oyama reference (*Advanced Technologies for Polymer Battery*) as evidence. (emphasis in original) The examiner has reviewed the Oyama reference, and while the examiner acquiesces to the reference clearly stating that polyaniline is electronically conductive, the reference does not negate ion conductivity. It cannot be concluded from the Oyama reference that ion conduction is not present in polyaniline. Indeed, the Oyama reference instead discloses that "[p]olyanline that demonstrates electronic conductivity is obtained by oxidation (doping) of the reduced polyaniline in acidic atmosphere." See sec. 1.2.4. To this extent, the Encyclopedia of Smart Materials is relied upon by the examiner that polyaniline, when in an oxidized state, has "High ion exchange capacity". See p. 281.

Notwithstanding the above, the scope of applicant's present claims also does not preclude ion conduction within a polymer vies-a-vie by the lithium salts that are dissolved therein.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

Application/Control Number: 09/807,214

Art Unit: 1745

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian Mercado whose telephone number is (571) 272-1289. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

PATRICK JOSEPH RYAN SUPERVISORY PATENT EXAMINER

